XDI–PID

HAZARDOUS AREA GAS DETECTOR

Remote Fixed Gas Detection

Specification Sheet
ref C1505–C V3

- EXPLOSION PROOF
- FLEXIBLE OUTPUT OPTIONS
- ADDRESSABLE OR STAND ALONE
- HYPER TERMINAL COMMUNICATIONS / RS232 – LIVE DATA AND SET UP WITH 232 ADAPTER
- ONE MAN CALIBRATION
- 2 ALARM RELAYS PLUS FAULT RELAY OR 3 ALARM RELAY
- DATA LOGGING

The XDI–PID (photoionization detector) is used to measure a broad range of volatile organic compounds in the low ranges of 0 to 50ppm and 0 to1000ppm. The unit is fully certified as a flameproof fixed monitor for use in hazardous areas. 4~20mA signaling with CANbus address enables the sensors to be networked via the GDS Combi control system or customer preferred monitoring systems.

Certification
Explosion proof ATEX–IECEx
II 2G Ex db IIC T6…T4 Gb
II 2D Ex tb IIIC T85°C…T135°C Db

Power Supply
18 to 35vDC 24v nominal

Outputs
3 wire analog 4~20mA
4 wire CANbus
Optional Relays
- Low alarm S.P.C.O
- High alarm S.P.C.O
- Fault alarm S.P.C.O / overrange
- Rating 0.5A @30vDC
- Inhibit option during servicing

Logging
Intervals – variable time
Roll over/stop
Storage – 2,880 readings

Housing Material
Copper free aluminium alloy, optional stainless steel

Finish
Chemical resistant epoxy paint, Ral 9003 signal white
Optional – Marine grade finish

Ingress Protection
IP64 + water shield IP65
with hydrophobic screen IP66

Cable Entry
2 x M20 – 1.5 pitch – alternatives 25mm – 3/4 NPT

Weight
1.6kg

Temperature
–15°C to +55°C – safe area use
For hazardous area use see temperature ranges on C1227 (Ex certification summary)

Humidity
5 to 95% RH non–condensing

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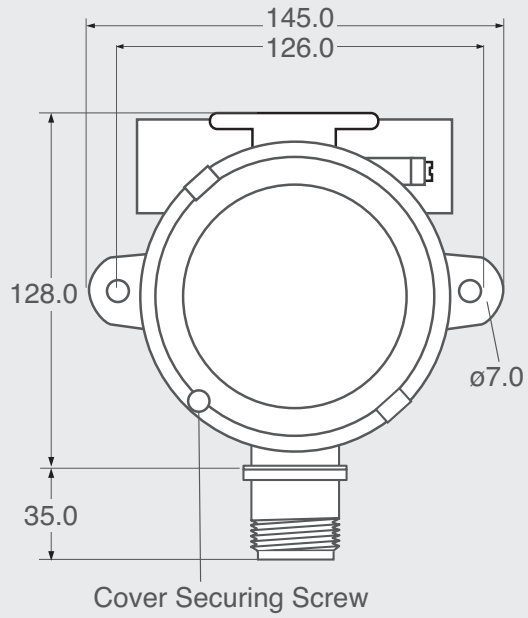

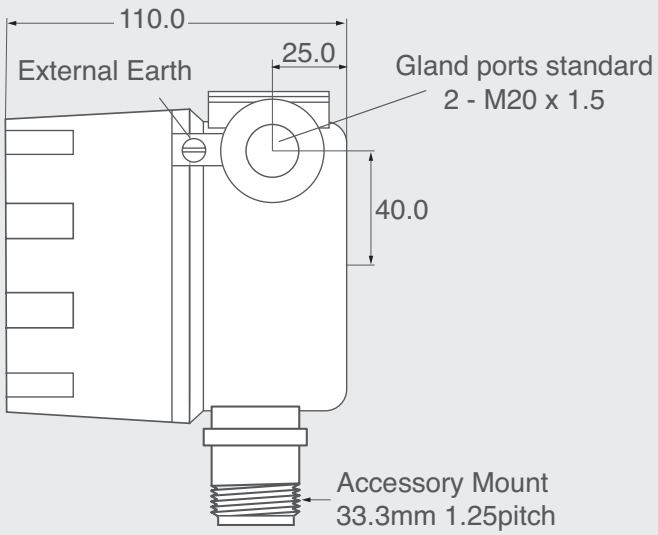

Accessories

003–010	Collector Cone & Universal Fitting
003–020	Universal fitting (Test Gas Applicator/ Spray Deflector)
003–035	Water Shield – stainless steel
008–311	Flow Block – nylatron
008–310	Flow Block – stainless steel
003–090	Duct Mount Kit
003–083	Detector Head Weather Shield
003–130	F1 Sensor Thermal Jacket

Replacement Parts

010–644 PID Bulb*

010–645 PID Electrode Stack

010–646 PID Spring

010–647 PID Extraction Tool

Sensor Type

Photo ionisation – PID

Target Gases

VOC's with ionisation potentials <10.6 eV

Range

Isobutylene 0–200ppm (0–1000ppm max)
Isobutylene 5ppb to 50ppm option
see gas listing G645

Overrange

Isobutylene 5000ppm

Response Time T90

<15 seconds

Operating Life

Expected 5 years (excluding replaceable lamp and electronic stack – *6 months continuous operation)

C815

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